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HEAD ACTUATOR, HARD DISK APPARATUS AND METHOD OF MANUFACTURING A HEAD ACTUATOR

CROSS REFERENCE TO RELATED APPLICATIONS

The present document claims priority to Japanese Priority Document JP2002-304832, filed in the Japanese Patent Office on October 18, 2002, the entire contents of which are incorporated herein by reference to the extent permitted by law.

BACKGROUND OF THE INVENTION

1. Field of the Invention

The present invention relates to a head actuator in which a magnetic head is attached to a rotatable arm by way of an elastic member, a hard disk apparatus equipped with a head actuator, as well as a method of manufacturing a head actuator. More particularly, the present invention seeks to provide a thinner head actuator, and thus a thinner hard disk apparatus, by way of a configuration in which two elastic members are attached to an arm in such a manner that the arm is positioned between the elastic members.

2. Description of the Related Art

Figs. 11A and 11B are plan views showing configuration examples of conventional hard disk apparatuses (HDDs), where Fig. 11A shows a fixed hard disk apparatus and Fig. 11B shows a removable hard disk apparatus. In a conventional hard disk apparatus 51, magnetic heads 53 for recording and reading information on a disk 52, suspensions 54 for supporting these magnetic heads 53 on one end, and a head actuator 56 including an arm 55 for keeping these suspensions 54 fixed in place are incorporated. The shape of the conventional head actuator 56 is such that it is symmetrical with respect to straight line C-C drawn through the center of a pivot 57 and the magnetic head 53. A head actuator with such a shape is also referred to as an in-line head actuator.

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